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HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910 RESTON, VA 20195			KADING, JOSHUA A	
			ART UNIT	PAPER NUMBER
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DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

SM

Office Action Summary	Application No. 09/643,203	Applicant(s) FATEHI ET AL	
	Examiner Joshua Kading	Art Unit 2661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 April 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 and 9-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 and 9-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☐ All b) ☐ Some * c) ☐ None of:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
 * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 14, 17, 18, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,434,154 B1, Stacey et al. (Stacey).

Regarding claims 14 and 18, Stacey discloses, "in an optical communication network having a plurality of network nodes and one or more user nodes coupled to one or more of the plurality of network nodes (*col. 4, lines 18-26*), a first network node for transporting information in the communication network comprising:

a processor operable to form a digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions and each transmission may be formatted according to one of many different protocols (*col. 5, lines 64-col. 6, lines 1-29 where each mini-cell is data from a user or service, which all have their own protocol by which they adhere (for example, voice and audio have different protocols for processing); further, since each larger ATM cell is constructed of many mini-cells, each ATM cell could have one to*

many different protocols within its payload) and further operable to address the digital container for routing to a second network node (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes; figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the one or more user destinations; it is inherent that a node that processes data (such as the process of demultiplexing) must have a processor of sorts as a processor is the only way to change electrical data from one form to another);

and a routing element for routing the digital container to a second network node based only on destination information contained within the header section of the digital container, wherein the payload section of the digital container includes information for only the one or more user nodes serviced by the second network node (figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node)."

Regarding claim 17, Stacey discloses, "a method of transporting information in an optical communication network having interconnected network nodes and one or more user nodes coupled to network nodes (col. 4, lines 18-26), the method comprising:

in a first network node (figure 5, where element 52 can act as a first or last node of the network in figure 5),

a processor for forming a digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions (*figure 4 where a description of figure 4 is found in col. 5, lines 64-col. 6, lines 1-4; figure 5 shows the forming of the multiplexed digital container of figure 4 at the beginning node; it should be noted that the processor is inherent in the network node because to form and transmit the digital piece of information, a processor must execute these processes*) and each transmission may be formatted according to one of many different protocols (*col. 5, lines 64-col. 6, lines 1-29 where it is strongly suggested here that each mini-cell is data from a user or service, which all have their own protocol by which they adhere (for example, voice and audio have different protocols for processing); further, since each larger ATM cell is constructed of many mini-cells, each ATM cell could have one to many different protocols within its payload*), and

a routing element for routing the digital container to a second network node based only on destination information contained within the header section of the digital container (*figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node*); and

in a second network node, a processor for receiving and processing the digital container and routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node, wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node (*figure 4, shows the*

payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes; figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the one or more user destinations; it should be noted that although a processor is not mentioned or shown, it is inherent that a node that processes data (such as the process of demultiplexing) must have a processor of sorts as a processor is the only way to change electrical data from one form to another)."

Regarding claim 19, Stacey discloses, "in an optical communication network having a plurality of network nodes and one or more user nodes coupled to one or more of the plurality of network nodes (*col. 4, lines 18-26*), a destination network node for transporting information in the communication network comprising:

means for receiving a digital container transmitted by a first network node using only destination information corresponding to the digital container, the digital container including a header section and a payload section (figure 5, element 51 which has received the ATM cell information from node 52 and where the ATM cell is structured as that of the ATM cell in figure 4, having a header and payload), wherein the payload section is capable of carrying a plurality of separate transmissions (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes) and each transmission may be formatted according to one of many different protocols (col. 5, lines 64-col. 6, lines 1-29 where each mini-cell has data from

a user or service, which all have their own protocol by which they adhere (for example, voice and audio have different protocols for processing); further, since each larger ATM cell is constructed of many mini-cells, each ATM cell could have one to many different protocols within its payload);

and means for processing the digital container and for routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node (figure 5, where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the separate destinations), wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node" (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes)."

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-6, 10, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stacey et al. in view of U.S. Patent 5,440,547, Easki et al. (Easki).

Regarding claims 1 and 15, Stacey discloses, "a method of transporting information in an optical communication network having interconnected network nodes and one or more user nodes coupled to network nodes (*col. 4, lines 18-26*), the method comprising:

forming a digital container at a first network node, the digital container including a header section and a payload section, wherein the payload section is capable of carrying a plurality of separate transmissions (*figure 4 where a description of figure 4 is found in col. 5, lines 64-col. 6, lines 1-4; figure 5 shows the forming of the multiplexed digital container of figure 4 at the beginning node*) and each transmission may be formatted according to one of many different protocols (*col. 5, lines 64-col. 6, lines 1-29 where it is strongly suggested here that each mini-cell is data from a user or service, which all have their own protocol by which they adhere (for example, voice and audio have different protocols for processing); further, since each larger ATM cell is constructed of many mini-cells, each ATM cell could have one to many different protocols within its payload*);

routing the digital container through the communication network based only on destination information contained within the header section of the digital container (*figure 5, element 51 is a switch which, as seen from figure 5, uses the AAL-2 header as routing information for the data that is sent to the node*);

routing the separate transmissions carried in the payload section of the digital container to one or more user nodes serviced by the second network node (*figure 5,*

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where the last element in the network path, similar to that of element 52, is the end node in the network that receives the single multiplexed data that has arrived from the ATM network and demultiplexes it into its respective mini cells, thus ready for transmission to the separate destinations), wherein the payload section of the digital container includes transmissions for only the one or more user nodes serviced by the second network node (figure 4, shows the payload section of the ATM cell that includes transmissions (ATM mini cells) from one or more user nodes)."

However, Stacey lacks what Easki discloses, that is "receiving and processing the digital container at a second network node (col. 2, lines 26-35 where the term "nodes" says there is more than one and therefore the digital container must be received and processed by a second network node)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the receiving and processing the digital container at a second network node for the purpose of routing the digital container onto the final node in the destination. The motivation is that by routing the digital container to the second node the larger amount of multiplexed data than each individual transmission has been transmitted effectively and efficiently across the network (Stacey, col. 3, lines 58-61).

Regarding claim 2, Easki lacks what Stacey further discloses, "the step of processing the separate transmissions according to the one or more protocols at the one or more user nodes (figure 5 where the flow has been transmitted from one end (the first node) to the other end (the second node) and where a description of figure 5

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can be read in col. 6, lines 41-50 where at the first node, a plurality of users or transmissions are multiplexed into the flow and thus at the end or second node they will be demultiplexed and routed to their appropriate destinations)." It would have been obvious to one with ordinary skill in the art at the time of invention to include the additional step of processing with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 3, Easki lacks what Stacey further discloses, "the payload section of the digital container comprises a heterogeneous payload having a plurality of units of traffic selected from the group consisting of an ATM cell... (*col. 4, lines 24-26*)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the plurality of units subscribing to the ATM protocol with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 4, Stacey lacks what Easki further discloses, "the digital container is formed as a signaling-type container for establishing a communications connection between network nodes (*col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the same digital container creation for signaling messages as is done in Stacey and use these signals to perform connection-setting procedures, i.e. setup connections between nodes*)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the signal-type container with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 5, Stacey lacks what Easki further discloses, "the digital container is formed as a signaling-type container for establishing a communications connection between user nodes (*col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the same digital container creation for signaling messages as is done in Stacey and use these signals to perform connection-setting procedures, i.e. setup connections between nodes*)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the signal-type container with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 6, Stacey lacks what Easki further discloses, "the step of forming comprises forming a digital container of a fixed size (*col. 1, lines 51-55*)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the digital container of fixed size with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 10, Stacey lacks what Easki further discloses, "the header section further includes a payload control field for indicating whether contents of the payload section of the digital container are dedicated to a single user node (*col. 39, lines 19-25 and 43-55 where the VPI field describes a destination address, which can further identify a single SAP, and although an SAP is not explicitly described as a user, it can be treated as an "end point" in communication*)."

It would have been obvious to

one with ordinary skill in the art at the time of invention to include the payload control field with the method of claim 1 for the same reasons and motivation as in claim 1.

Regarding claim 11, Stacey lacks what Easki further discloses, that is "the header section further includes a payload control field for indicating whether contents of the payload section of the digital container are intended for two or more user nodes serviced by the same network node (*col. 39, lines 19-25 and 43-55 where the VPI field describes a destination address, which can further identify a multicast or broadcast (two or more users)*)." It would have been obvious to one with ordinary skill in the art at the time of invention to include the payload control field with the method of claim 1 for the same reasons and motivation as in claim 1.

5. Claims 9, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stacey et al. and Easki et al. as applied to claim 1 above, and further in view of U.S. Patent 5,926,478, Ghaibeh et al. (Ghaibeh).

Regarding claim 9, Stacey and Easki lack what Ghaibeh discloses, "the header section includes an optical logical channel identification (OLCI) field for identifying the destination of the digital container (*figure 2, element 80 and figure 4, element 80, 82, and 84, although Ghaibeh does not explicitly describe an OCLI field that defines a destination of a digital container as described in claim 1, Ghaibeh does disclose the functional equivalent of an OCLI field for an ATM cell, i.e. the VPI/VCI field; Ghaibeh*

uses the VPI/VCI field as a destination identifier field in an ATM cell that directs the cell to the destination regardless of what's in the payload)." It would have been obvious to one with ordinary skill in the art at the time of invention to include the OCLI with the method of claim 1 for the purpose of identifying where the payload is destined (*Ghaibeh, col. 5, lines 37-40*). The motivation for this being that by identifying the appropriate destination for the payload, the contents of the payload can then be routed to their appropriate destinations, thus completing the transmission process.

Regarding claim 12, Stacey and Easki lack what Ghaibeh further discloses, "the OCLI field comprises a network node destination address and one or more user node destination addresses, wherein the network node destination address corresponds to the second network node and wherein the one or more user node destination addresses correspond to one or more user nodes serviced by the second network node (*although Ghaibeh does not explicitly state the VPI or VCI are the network or user node addresses, they are taken to be the functional equivalents of the network and user node addresses. The VPI and VCI disclose the destination and circuit path. In order to reach the destination, the addresses of the network node and the final user node must be known or determined through the addressing of the ATM cell, i.e. the VPI represents the network node address and the VCI represents the user node address*)." It would have been obvious to one with ordinary skill in the art at the time of invention to include the two addresses with the method of claim 9 for the same reasons and motivation as in claim 9.

Regarding claim 13, Stacey and Easki lack what Ghaibeh further disclose, "the step of routing the digital container comprises routing the digital container based on the destination identified in the OCLI field (*figure 4, element 84 where the VPI/VCI values are used to route the data to its intended destination as described in parent claims 9 and 12 and as is known in the art*). It would have been obvious to one with ordinary skill in the art at the time of invention to include the routing based on the OCLI field with the method of claim 9 for the same reasons and motivation as in claim 9.

Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Easki et al. in view U.S. Patent 5,617,417, Sathe et al. (Sathe).

Regarding claim 16, Easki discloses "a method of transporting information in a... communication network having interconnected network nodes and one or more user nodes coupled to network nodes (*figure 1 shows network nodes (30, 34, 32), user nodes (12, 14, 16, 18, 20, 22, 24)*), "the method comprising:

a) establishing a communications connection between a first and second network node by

1) forming a first digital container at a first network node, the first digital container including signaling information for establishing a route between the first and second network nodes (*col. 3, lines 3-13 where it is reasonable to assume that the signaling channel of Easki will employ the digital container creation for signaling messages as is typical in an ATM system*)

2) routing the first digital container through the communication network (*col. 3, lines 3-13 where it is implied that data, including signaling data, will be routed or switched through the network*)

3) receiving and processing the first digital container at the second network node to thereby establish the communication connection (*col. 3, lines 3-13 where it is implied that the "connection-setting procedure" is used to connect two nodes, and as such the second node of the connection must process the signaling container'so as to learn the connection requirements and standards, thus allowing the node to establish communication with the first node*);

b) establishing a signaling connection between a first and second user node, the first user node being coupled to the first network node and the second user node being coupled to the second network node (*col. 3, lines 3-13 where the "metasignaling channel" is a signaling connection between two nodes and although two user nodes are not explicitly discloses, it is assumed that there must be two user nodes communicating through the network, using the channels setup to service their communications*);

3) receiving and processing the second digital container at the second network node (*col. 2, lines 26-35 where the term "nodes" says there is more than one and therefore the digital container must be received and processed by a second network node*);

4) routing the one or more... messages carried in the payload section of the second digital container to the second user node serviced by the second network node, such that signaling is established between the first and second user nodes (*col. 3, lines*

3-13 where it is implied that data, including signaling data, will be routed or switched through the network to a second user node that is the intended recipient of the communication)."

However, Easki and Stacey further lack what Sathe discloses, "1) forming a second digital container at a first network node, the digital container including a head section and a payload section (*figure 6, where the control message that is formed from the control information from individual cells is a second digital container*), 2) routing the second digital container through the communication network based only on destination information contained within the header section of the second digital container (*col. 7, lines 58-61 shows the newly formed control message is routed through the communication network*)," and "the payload section comprises one or more signaling messages supplied by the first user node (*figure 6 represents a control message being constructed of a plurality of control fields from a plurality of different cells, each from a different node/user, each control field is a functional equivalent of a signaling message because of its capacity of submitting control instructions, which tell the nodes to perform certain actions related to the function of the communication, to the appropriate nodes*)."

It would have been obvious to one with ordinary skill in the art at the time of invention to include the forming of the second digital container which, includes signaling messages in the payload section for the purpose of informing nodes of important changes to the network (*Sathe, col. 8, lines 3-7*). The motivation for this being that updating any changes to the network allows each node to be aware of links that are capable of transmission and those that are not.

Response to Arguments

6. Applicant's arguments filed 25 April 2005 have been fully considered but they are not persuasive.

Applicant makes the following arguments:

1) Stacey (as well as Easki and Ghaibeh) is not a permissible reference to use because Stacey does not disclose that the data in the digital container is formatted according to "one of many different protocols."

2) The CC bits of Sathe are not placed into the payload section of a second digital container.

The examiner respectfully disagrees for the following reasons:

1) The limitation "one of many different protocols" is broadly stated. As such it is interpreted broadly. Stacey discloses in col. 6, lines 9-11 that the "format of the minicell [is] tailored to the specific service requirements of the channel." These services can include data with low-delay requirement and high bandwidth requirement (see Stacey, col. 6, lines 15-29). This means that there are at least two different protocols (low-delay and high bandwidth) in which the data of the digital container can be formatted.

2) As noted in Sathe, col. 6, lines 62-67, the control bits from each cell are extracted and made into a larger control message. This is seen in figure 6. This newly formed control message is then sent down the communication network as read in col. 7, lines 58-61. This newly formed control message is a second formed digital container

and the control data extracted from the other frames has effectively been placed in the payload of this new digital container.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

It should be further noted that there is no new ground of rejection when the basic thrust of the rejection remains the same such that an appellant has been given a fair opportunity to react to the rejection. See *In re Kronig*, 539 F.2d 1300, 1302-03, 190 USPQ 425, 426-27 (CCPA 1976). Where the statutory basis for the rejection remains the same, and the evidence relied upon in support of the rejection remains the same, a change in the discussion of, or rationale in support of, the rejection does not necessarily constitute a new ground of rejection. *Id.* at 1303, 190 USPQ at 427 (reliance upon fewer

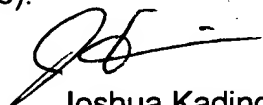
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references in affirming a rejection under 35 U.S.C. 103 does not constitute a new ground of rejection).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Kading whose telephone number is (571) 272-3070. The examiner can normally be reached on M-F: 8:30AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chau Nguyen can be reached on (571) 272-3126. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Joshua Kading
Examiner
Art Unit 2661

July 8, 2005



CHAU NGUYEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600